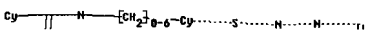
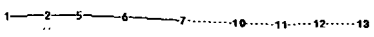
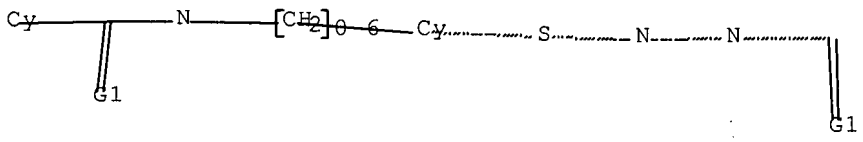
```
* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *
 * * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 10:18:00 ON 18 SEP 2007

=> file reg
=> Uploading C:\Program Files\Stnexp\Queries\Queries\10088074.str
```



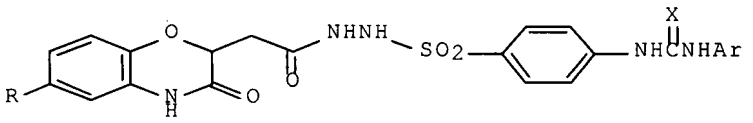


```
chain nodes :
1  2  4  5  6  7  10  11  12  13  14
chain bonds :
1-2  2-4  2-5  5-6  6-7  7-10  10-11  11-12  12-13  13-14
exact/norm bonds :
1-2  2-4  2-5  6-7  7-10  10-11  11-12  12-13  13-14
exact bonds :
5-6


G1:O,S

Match level :
1:Atom  2:CLASS  4:CLASS  5:CLASS  6:CLASS  7:Atom  10:CLASS  11:CLASS  12:CLASS
13:CLASS  14:CLASS
Generic attributes :
1:
Saturation              : Unsaturated
7:
Saturation              : Unsaturated



L1      STRUCTURE UPLOADED

=> dis l1
L1 HAS NO ANSWERS
L1              STR
```




```
 G1 O,S


Structure attributes must be viewed using STN Express query preparation.
```

```
=> s l1 sam
L2             3 SEA SSS SAM L1

=> s l1 full
L3           112 SEA SSS FUL L1

=> file caplus


=> s l3
L4             5 L3

=> s l4 and pd< sept 1999
      19968304 PD< SEPT 1999
                 (PD<19990900)
L5             2 L4 AND PD< SEPT 1999

=> dis l5 1-2 bib abs hitstr

L5   ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2007 ACS on STN
AN   1998:264994  CAPLUS  Full-text
DN   128:308458
TI   New hypoglycemic agents - Part XVI: synthesis and evaluation of
     N3-aryl-N1-[4-[(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-2-yl)acetic acid
     hydrazidosulfonyl]phenyl] ureas/thioureas
AU   Reddy, R. Raja; Reddy, T. Madhukar; Reddy, V. M.
CS   Medicinal Chemistry Laboratories, University College of Pharmaceutical
     Sciences, Kakatiya University, Warangal, 506 009, India
SO   Indian Journal of Heterocyclic Chemistry (1998), 7(3), 185-188
     CODEN: IJCHEI; ISSN: 0971-1627
PB   Prof. R. S. Varma
DT   Journal
LA   English
GI
```

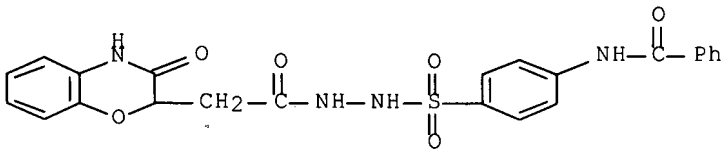


I

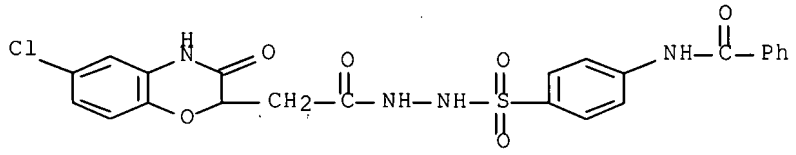
```
AB   Eight different N3-aryl-N1-[4-[(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-2-
     yl)acetic acid hydrazidosulfonyl]phenyl]ureas/thioureas I (R = H, Cl, Ar = Ph,
     4-MeC6H4, 4-BrC6H4, X = O, S) were synthesized from the corresponding (3,4-
     dihydro-3-oxo-2H-benzoxazin-2-yl)acetic acid hydrazides.  The title compds.
     along with their intermediates were characterized by anal. and spectral data.
     Their pharmacol. evaluation had showed them to possess a moderate hypoglycemic
     activity.  The N3-aryl group was found to play a key role in aldose reductase
     inhibiting property, the compound with 4-methylphenyl group being more potent,
     in this respect.
IT   206553-05-1P 206553-06-2P 206553-07-3P
     206553-08-4P 206553-09-5P 206553-11-9P
     206553-13-1P 206553-14-2P
```

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation, aldose reductase inhibitory, and hypoglycemic activity of oxobenzoxazinylacetic acid (hydrazidosulfonyl)phenyl ureas/thioureas)

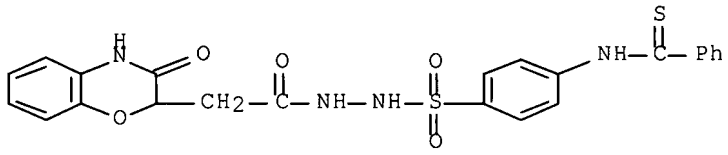
RN 206553-05-1 CAPLUS
CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-3-oxo-, 2-[[4-(benzoylamino)phenyl]sulfonyl]hydrazide (9CI) (CA INDEX NAME)



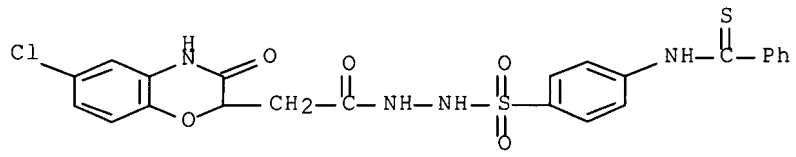
RN 206553-06-2 CAPLUS
CN 2H-1,4-Benzoxazine-2-acetic acid, 6-chloro-3,4-dihydro-3-oxo-, 2-[[4-(benzoylamino)phenyl]sulfonyl]hydrazide (9CI) (CA INDEX NAME)



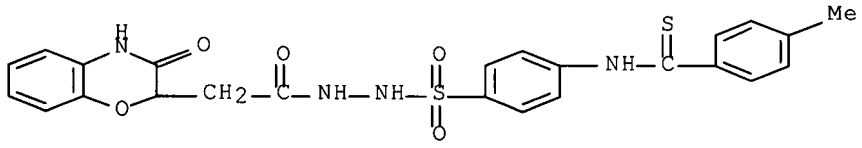
RN 206553-07-3 CAPLUS
CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-3-oxo-, 2-[[4-[(phenylthioxomethyl)amino]phenyl]sulfonyl]hydrazide (9CI) (CA INDEX NAME)



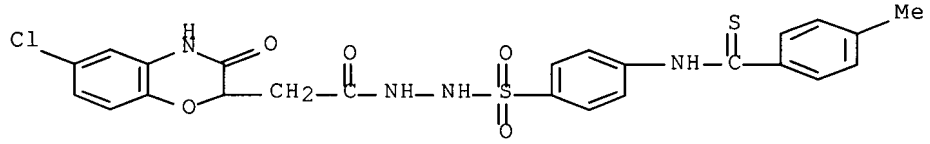
RN 206553-08-4 CAPLUS
CN 2H-1,4-Benzoxazine-2-acetic acid, 6-chloro-3,4-dihydro-3-oxo-, 2-[[4-[(phenylthioxomethyl)amino]phenyl]sulfonyl]hydrazide (9CI) (CA INDEX NAME)



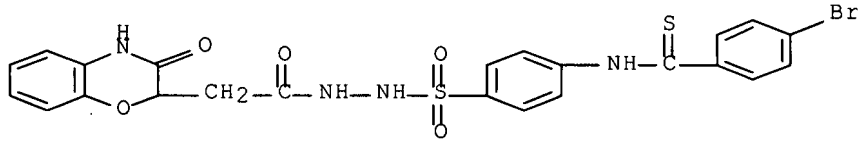
RN 206553-09-5 CAPLUS
CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-3-oxo-, 2-[[4-[[(4-methylphenyl)thioxomethyl]amino]phenyl]sulfonyl]hydrazide (9CI) (CA INDEX NAME)



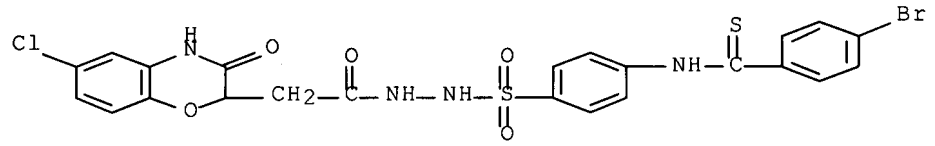
RN 206553-11-9 CAPLUS
CN 2H-1,4-Benzoxazine-2-acetic acid, 6-chloro-3,4-dihydro-3-oxo-, 2-[[4-[[(4-methylphenyl)thioxomethyl]amino]phenyl]sulfonyl]hydrazide (9CI) (CA INDEX NAME)



RN 206553-13-1 CAPLUS
CN 2H-1,4-Benzoxazine-2-acetic acid, 3,4-dihydro-3-oxo-, 2-[[4-[[(4-bromophenyl)thioxomethyl]amino]phenyl]sulfonyl]hydrazide (9CI) (CA INDEX NAME)



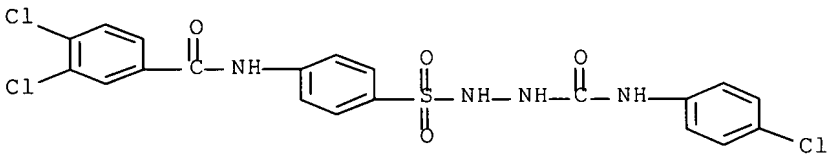
RN 206553-14-2 CAPLUS
CN 2H-1,4-Benzoxazine-2-acetic acid, 6-chloro-3,4-dihydro-3-oxo-, 2-[[4-[[(4-bromophenyl)thioxomethyl]amino]phenyl]sulfonyl]hydrazide (9CI) (CA INDEX NAME)



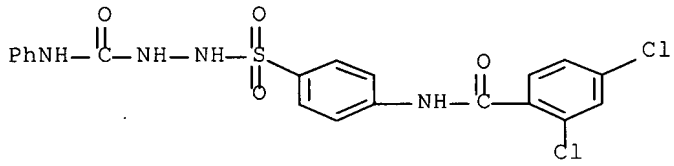
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

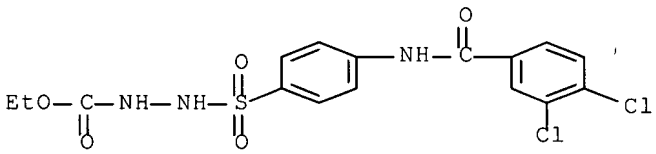
L5 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1984:209309 CAPLUS Full-text
DN 100:209309
TI Some novel sulfanilyl derivatives
AU Cremlyn, R. J.; Swinbourne, F. J.; Batchelor, A.; Honeyman, R.; Nash, D.; Shode, O. O.; Patel, A.
CS Sch. Nat. Sci., Hatfield Polytech., Hatfield/Hertfordshire, UK
SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1983), 22B(10), 1029-43
CODEN: IJSBDB; ISSN: 0376-4699
DT Journal
LA English
OS CASREACT 100:209309
AB Benzoic acid anilide and p-chloro, m-nitro, together with the 2,4-, 2,5- and 3,4-dichloro derivs., reacted with chlorosulfonic acid (I) in 1:4 molar ratios to give the corresponding sulfanilyl chlorides. However, nicotinic acid and isonicotinic acid anilides reacted with I, in 1:6 molar ratios only for conversion into the sulfanilyl chlorides. 2,4-Dichlorophenoxyacetic acid anilide reacted with I in 1:3 molar ratios to give the sulfanilyl chloride; this reaction when carried out in 1:7 molar ratios of the reactants gave the disulfonyl chloride. The various sulfanilyl chlorides were treated with amines, azide ion, and hydrazine to give a range of sulfonyl compds. The compds. prepared have been subjected to preliminary biol. screening.
IT 89565-05-9P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and herbicidal activity of)
RN 89565-05-9 CAPLUS
CN Benzenesulfonic acid, 4-[(3,4-dichlorobenzoyl)amino]-, 2-[[(4-chlorophenyl)amino]carbonyl]hydrazide (9CI) (CA INDEX NAME)



IT 89564-91-0P 89565-03-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 89564-91-0 CAPLUS
CN Benzenesulfonic acid, 4-[(2,4-dichlorobenzoyl)amino]-, 2-[(phenylamino)carbonyl]hydrazide (9CI) (CA INDEX NAME)



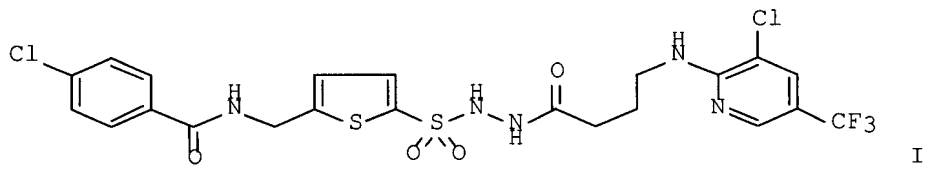
RN 89565-03-7 CAPLUS
CN Hydrazinecarboxylic acid, 2-[[4-[(3,4-dichlorobenzoyl)amino]phenyl]sulfonyl]-, ethyl ester (9CI) (CA INDEX NAME)



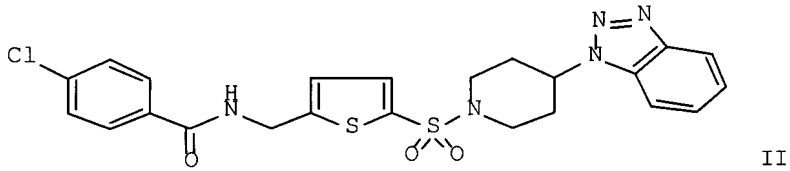
=> s l4 not l5
L6 3 L4 NOT L5

=> dis l6 1-3 bib abs fhitstr

L6 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2004:1045227 CAPLUS Full-text
DN 142:155891
TI Design, Synthesis, and Biological Activity of Novel, Potent, and Selective (Benzoylaminomethyl)thiophene Sulfonamide Inhibitors of c-Jun-N-Terminal Kinase
AU Rueckle, Thomas; Biamonte, Marco; Grippi-Vallotton, Tania; Arkinstall, Steve; Cambet, Yves; Camps, Montserrat; Chabert, Christian; Church, Dennis J.; Halazy, Serge; Jiang, Xuliang; Martinou, Isabelle; Nichols, Anthony; Sauer, Wolfgang; Gotteland, Jean-Pierre
CS Serono Pharmaceutical Research Institute, Geneva, 1228, Switz.
SO Journal of Medicinal Chemistry (2004), 47(27), 6921-6934
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
OS CASREACT 142:155891
GI



I



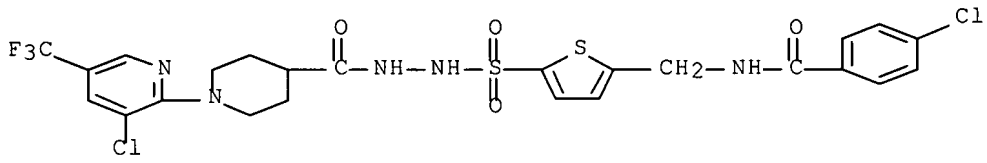
II

AB Several lines of evidence support the hypothesis that c-Jun N-terminal kinases (JNKs) play a critical role in a wide range of disease states including cell death (apoptosis)-related and inflammatory disorders (epilepsy, brain, heart and renal ischemia, neurodegenerative diseases, multiple sclerosis, rheumatoid arthritis, and inflammatory bowel syndrome). The screening of a compound collection led to the identification of a 2-(benzoylaminomethyl)thiophene sulfonamide (AS004509, I) as a potent and selective JNK inhibitor. Chemical and structure-activity relationship (SAR) studies performed around this novel kinase-inhibiting motif indicated that the left and central parts of the mol. were instrumental to maintaining potency at the enzyme. Accordingly, we investigated the JNK-inhibiting properties of a number of variants of the right-hand moiety of the mol., which led to the identification of 2-(benzoylaminomethyl)thiophene sulfonamide benzotriazole (AS600292, II), the first potent and selective JNK inhibitor of this class which demonstrates a protective action against neuronal cell death induced by growth factor and serum deprivation.

IT 830331-12-9P
RL: CPN (Combinatorial preparation); PAC (Pharmacological activity); PRP (Properties); BIOL (Biological study); CMBI (Combinatorial study); PREP (Preparation)
(preparation, selective c-Jun-N-terminal kinase inhibiting activity and structure-activity relationship of (benzoylaminomethyl)thiophene sulfonamides)

RN 830331-12-9 CAPLUS

CN 4-Piperidinecarboxylic acid, 1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-, 2-[[5-[[(4-chlorobenzoyl)amino]methyl]-2-thienyl]sulfonyl]hydrazide (9CI) (CA INDEX NAME)



RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2002:125925 CAPLUS Full-text
DN 136:151160
TI Preparation of N-thienylsulfonylthiazolecarbohydrazides and analogs as c-Jun N-terminal kinase inhibitors
IN Arkinstall, Stephen; Halazy, Serge; Church, Dennis; Camps, Montserrat; Rueckle, Thomas; Gotteland, Jean-Pierre; Biamonte, Marco
PA Applied Research Systems ARS Holding N.V., Neth. Antilles
SO PCT Int. Appl., 76 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001023382	A1	20010405	WO 2000-IB1381	20000928

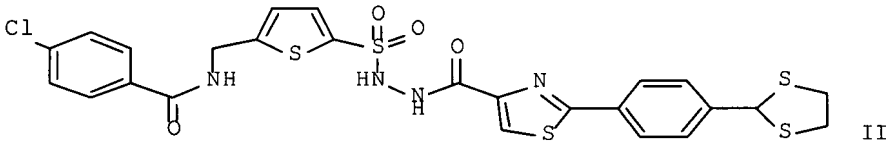
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,

SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1088822	A1	20010404	EP 1999-810870	19990928	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO					
CA 2385001	A1	20010405	CA 2000-2385001	20000928	
EP 1216245	A1	20020626	EP 2000-962745	20000928	
EP 1216245	B1	20040526			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL					
JP 2003510323	T	20030318	JP 2001-526534	20000928	
AT 267826	T	20040615	AT 2000-962745	20000928	
AU 777293	B2	20041007	AU 2000-74386	20000928	
PRAI EP 1999-810870	A	19990928			
WO 2000-IB1381	W	20000928			

OS MARPAT 136:151160

GI



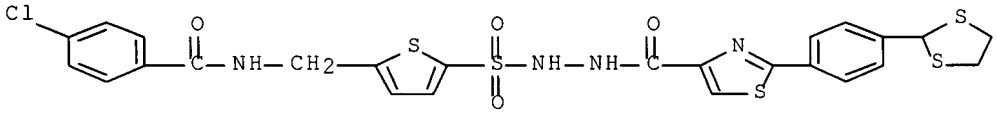
II

AB RC(:X1)NR1(CH2)nZSO2NR2NR3C(:X2)R4 [I; R = (un)substituted (hetero)aryl; R1, R2, and R3 = H or alkyl; or RR1 and/or R2R3 = atoms to complete a ring; R4 = (un)substituted alkyl or heterocyclyl; X1 and X2 = O or S; Z = (un)substituted (hetero)arylene; n = 0-5] were prepared as c-Jun N-terminal kinase (JNK) inhibitors, especially JNK2 or JNK3 inhibitors. Thus, 2-thiophenemethanamine was amidated by 4-ClC6H4COCl (98%) and the chlorosulfonated product (63%) amidated by 2-[4-(1,3-dithiolan-2- yl)phenyl]thiazole-4-carbohydrazide to give title compound II (80%). The latter exhibited selective inhibitory effect for JNK2 and JNK3 compared with p38 kinase and ERK2 protein kinase with IC50 values of 0.21 μM, 0.37 μM, >30 μM, and >30 μM, resp. Thus, I are useful for the treatment of neuronal disorders, autoimmune diseases, cancer, and cardiovascular disease.

IT 332360-50-6P, 4-Chloro-N-[[5-[[2-[[2-[4-(1,3-dithiolan-2-yl)phenyl]-1,3-thiazol-4-yl]carbonyl]hydrazino]sulfonyl]thien-2-yl]methyl]benzamide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(JNK inhibitor; preparation of N-thienylsulfonylthiazolecarbohydrazides and analogs as JNK2 and JNK3 inhibitors for treatment of neuronal disorders, autoimmune diseases, cancer, and cardiovascular disease)

RN 332360-50-6 CAPLUS

CN 4-Thiazolecarboxylic acid, 2-[4-(1,3-dithiolan-2-yl)phenyl]-, 2-[[5-[[(4-chlorobenzoyl)amino]methyl]-2-thienyl]sulfonyl]hydrazide (9CI) (CA INDEX NAME)

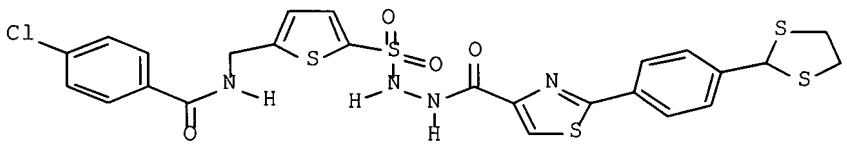


RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2001:246568 CAPLUS Full-text
DN 134:280838
TI Preparation of N-thienylsulfonylthiazolecarbohydrazides and analogs as c-Jun N-terminal kinase inhibitors
IN Arkinstall, Stephen; Halazy, Serge; Church, Dennis; Camps, Montserrat; Rueckle, Thomas; Gotteland, Jean-Pierre; Biamonte, Marco
PA Applied Research Systems ARS Holding N.V., Neth. Antilles
SO Eur. Pat. Appl., 32 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1088822	A1	20010404	EP 1999-810870	19990928
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	CA 2385001	A1	20010405	CA 2000-2385001	20000928
	WO 2001023382	A1	20010405	WO 2000-IB1381	20000928
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1216245	A1	20020626	EP 2000-962745	20000928
	EP 1216245	B1	20040526		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	JP 2003510323	T	20030318	JP 2001-526534	20000928
	AT 267826	T	20040615	AT 2000-962745	20000928
	PT 1216245	T	20040831	PT 2000-962745	20000928
	AU 777293	B2	20041007	AU 2000-74386	20000928
	ES 2216959	T3	20041101	ES 2000-962745	20000928
PRAI	EP 1999-810870	A	19990928		
	WO 2000-IB1381	W	20000928		

OS MARPAT 134:280838
GI



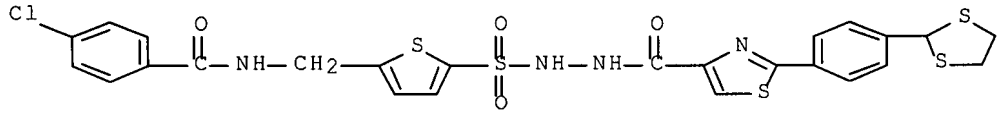
II

AB RC(:X1)NR1(CH2)nZSO2NR2NR3C(:X2)R4 [I; R = (un)substituted (hetero)aryl; R1,R2,R3 = H or alkyl; RR1,R2R3 = atoms to complete a ring; R4 = (un)substituted alkyl or -heterocyclyl; X1,X2 = O or S; Z = (un)substituted (hetero)aryene; n = 0-5] were prepared Thus, 2-thiophenemethanamine was amidated by 4-ClC6H4COCl and the chlorosulfonated product amidated by 2-[4-(1,3-dithiolan-2- yl)phenyl]thiazole-4-carbohydrazide to give title compound II. Data for biol. activity of I were given.

IT 332360-50-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of N-thienylsulfonylthiazolecarbohydrazides and analogs as c-Jun N-terminal kinase inhibitors)

RN 332360-50-6 CAPLUS

CN 4-Thiazolecarboxylic acid, 2-[4-(1,3-dithiolan-2-yl)phenyl]-, 2-[[5-[[(4-chlorobenzoyl)amino]methyl]-2-thienyl]sulfonyl]hydrazide (9CI) (CA INDEX NAME)



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log y
STN INTERNATIONAL LOGOFF AT 10:19:35 ON 18 SEP 2007